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DRAWINGS – NINE (9) SHEETS

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Applicant(s):

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Title:

BROADCASTING APPARATUS AND METHOD FOR
PRE-TRANSMITTING DATA CAROUSEL AND
RECEIVING APPARATUS FOR RECEIVING DATA
CAROUSEL

Attorney's
Docket No.:

NAK1-BO52

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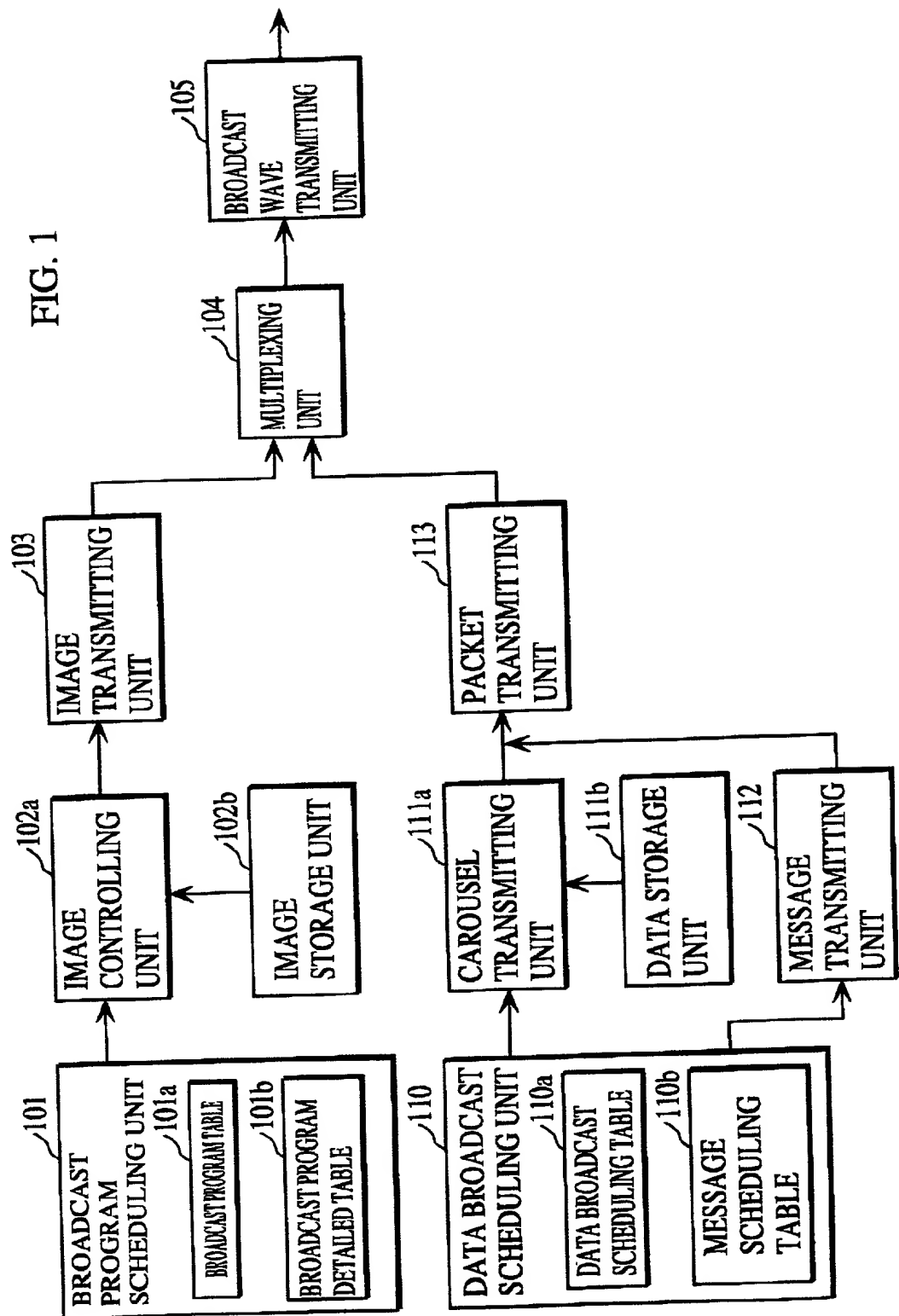


FIG. 1

FIG. 2

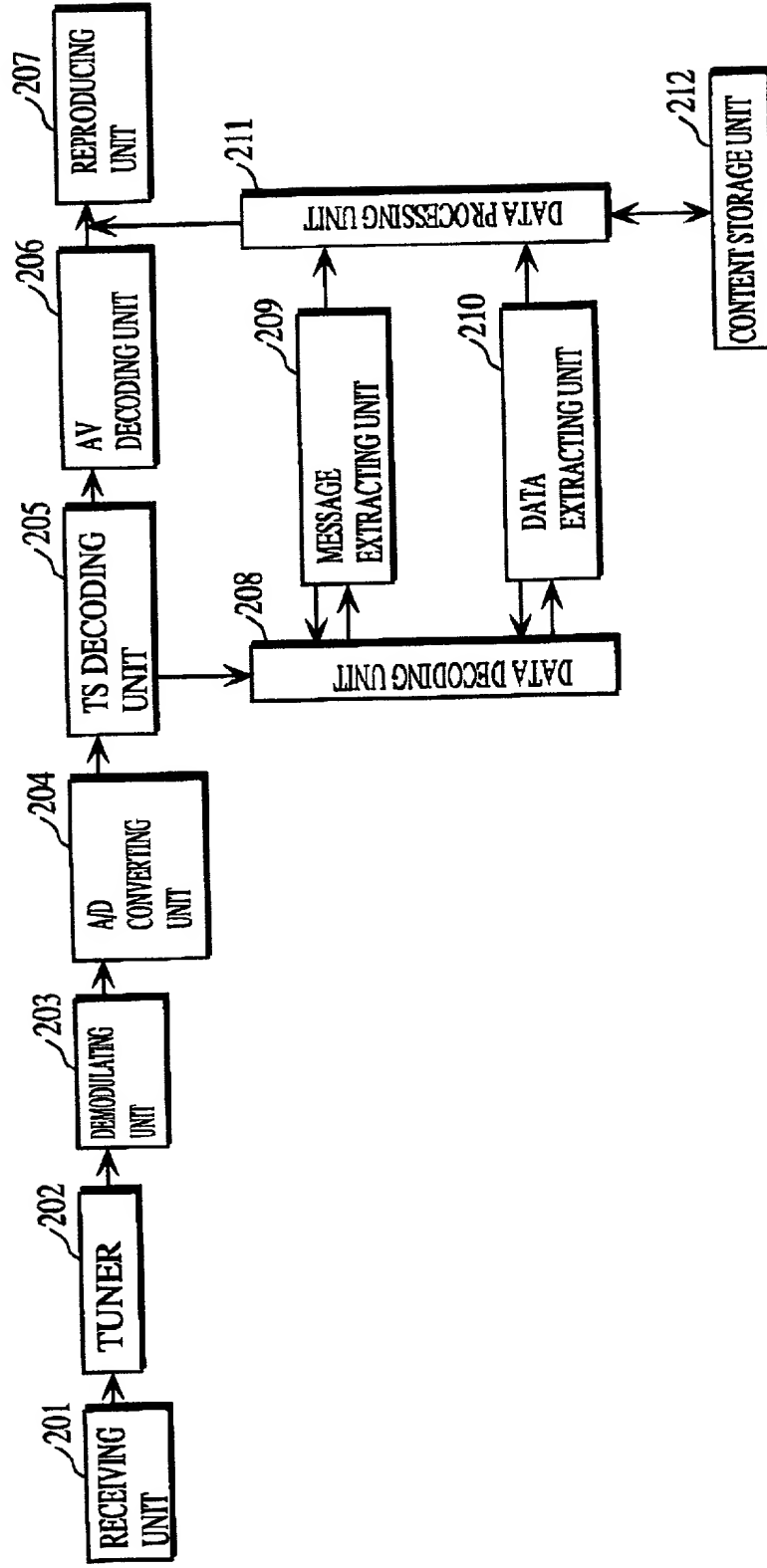


FIG. 3 BROADCAST PROGRAM TABLE 101a

BROADCASTING DATE	CHANNEL CODE	PROGRAM START TIME	PROGRAM END TIME	PROGRAM MANAGEMENT CODE	PROGRAM TITLE	PROGRAM ADDITIONAL DATA FLAG
1999/1/1	10	8 : 00	9 : 00	1001	PROGRAM A	OFF
		9 : 00	9 : 30	1002	PROGRAM B	OFF
		9 : 30	10 : 00	1003	PROGRAM C	OFF
		10 : 00	11 : 00	1004	PROGRAM D	ON
		11 : 00	12 : 00	1005	PROGRAM E	ON
		:	:	:	:	:
		:	:	:	:	:
	11	6 : 00	7 : 00	1101	PROGRAM A	OFF
		:	:	:	:	:

FIG. 4

BROADCASTING DATE	CHANNEL CODE	PROGRAM MANAGEMENT CODE	TRANSMISSION START TIME	TRANSMISSION END TIME	VIDEO MATERIAL MANAGEMENT CODE	AUDIO MATERIAL MANAGEMENT CODE	COMMERCIAL MATERIAL MANAGEMENT CODE	PROGRAM ADDITIONAL DATA FLAG
1999/1/1	10	1004	11:00	11:00	V1000	A1000		ON
		1005	11:00	11:15	V1001	A1001		OFF
			11:15	11:20			C1001	ON
			11:20	11:30	V1002	A1002		OFF
			11:30	12:00	V1003	A1003		OFF
	11	:	:	:	:	:	:	:
		:	:	:	:	:	:	:

FIG. 5

DATA BROADCAST SCHEDULING TABLE 110a

BROAD- CASTING DATE	CHANNEL CODE	PROGRAM MANAGEMENT CODE	TRANSMISSION START TIME	TRANSMISSION END TIME	DATA BROADCAST CONTENT MANAGEMENT CODE
1999/1/1	10	1004	9 : 55	11 : 00	D1000
		1005	11 : 10	11 : 20	D1001
		:	:	:	:
	11	:	:	:	:
		:	:	:	:

FIG. 6

MESSAGE SCHEDULING TABLE 110b

BROAD-CASTING DATE	CHANNEL CODE	PROGRAM MANAGEMENT CODE	TRANSMISSION START TIME	TRANSMISSION END TIME	TRANSMISSION INTERVAL (SEC)	MESSAGE
1999/1/1	10	1004	9 : 55	10 : 00	5	CACHE MESSAGE
			10 : 00	10 : 00	0	DISPLAY SWITCH MESSAGE
			11 : 00	11 : 00	0	DISPLAY SWITCH MESSAGE
		1005	11 : 10	11 : 15	5	CACHE MESSAGE
			11 : 15	11 : 15	0	DISPLAY SWITCH MESSAGE
			11 : 20	11 : 20	0	DISPLAY SWITCH MESSAGE
	11	:	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:

FIG. 7 is a diagram illustrating the timing of data broadcasting and TV broadcasting. The diagram shows two vertical bars representing the duration of these broadcasts. The left bar, labeled 'TV BROADCASTING', spans from 10:00 to 11:00. The right bar, labeled 'DATA BROADCASTING', spans from 9:55 to 10:00. The 'DATA BROADCASTING' bar is divided into three sections: 'DATA CAROUSEL', 'CONTENT SYNCHRONIZED WITH PROGRAM D', and 'D1000'. The 'DATA CAROUSEL' section contains a 'MESSAGE' and a 'CACHE MESSAGE'. The 'CONTENT SYNCHRONIZED WITH PROGRAM D' section contains a 'DISPLAY SWITCH MESSAGE'. The 'D1000' section is labeled 'D1000'. The 'TV BROADCASTING' bar is divided into two sections: 'PROGRAM D V1000, A1000' and 'PROGRAM E'. The 'PROGRAM D V1000, A1000' section is labeled 'PROGRAM D V1000, A1000' and the 'PROGRAM E' section is labeled 'PROGRAM E'. The diagram shows that the 'DATA BROADCASTING' occurs while 'PROGRAM D V1000, A1000' is being broadcast on the TV.

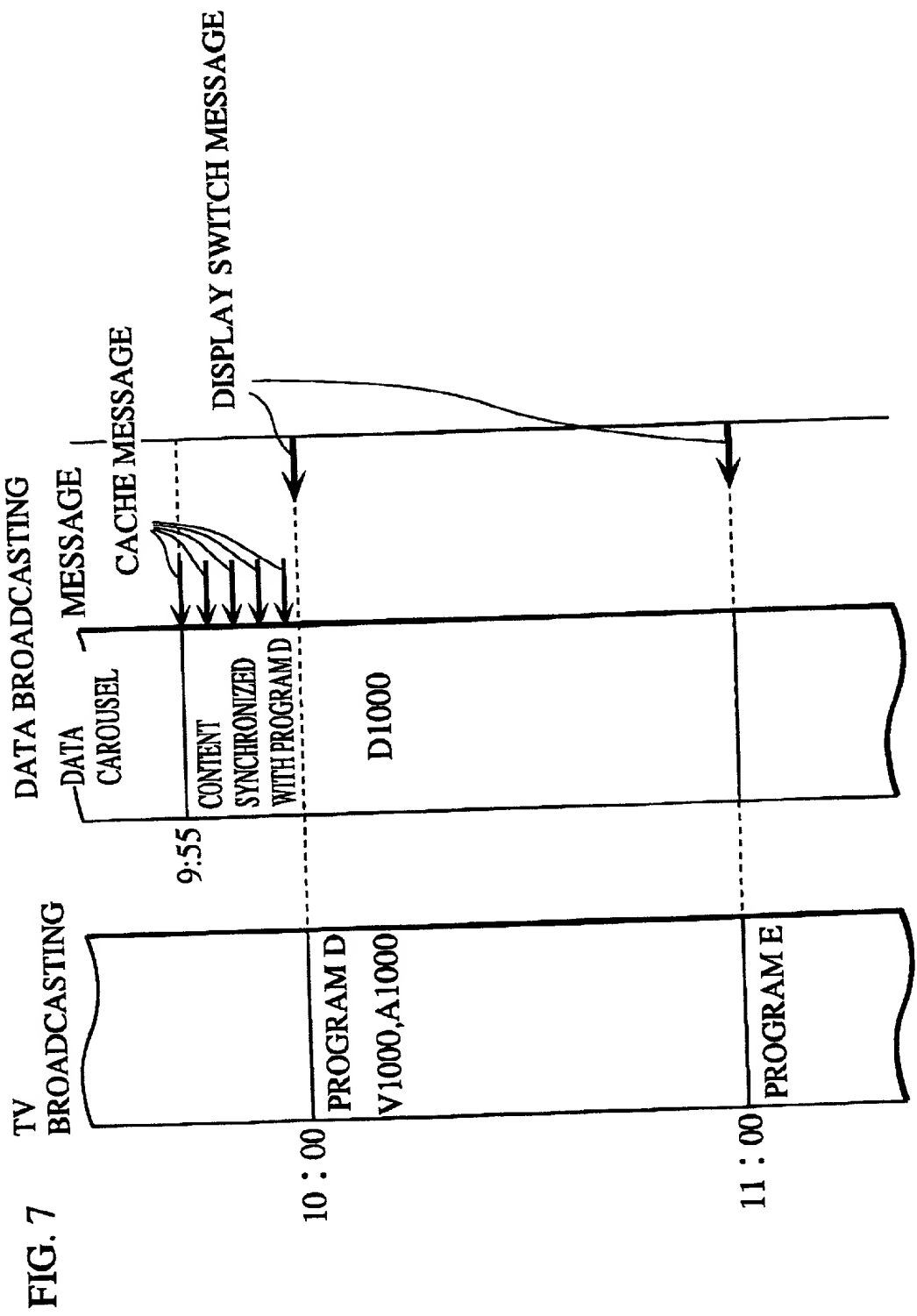


FIG. 8 TV BROADCASTING

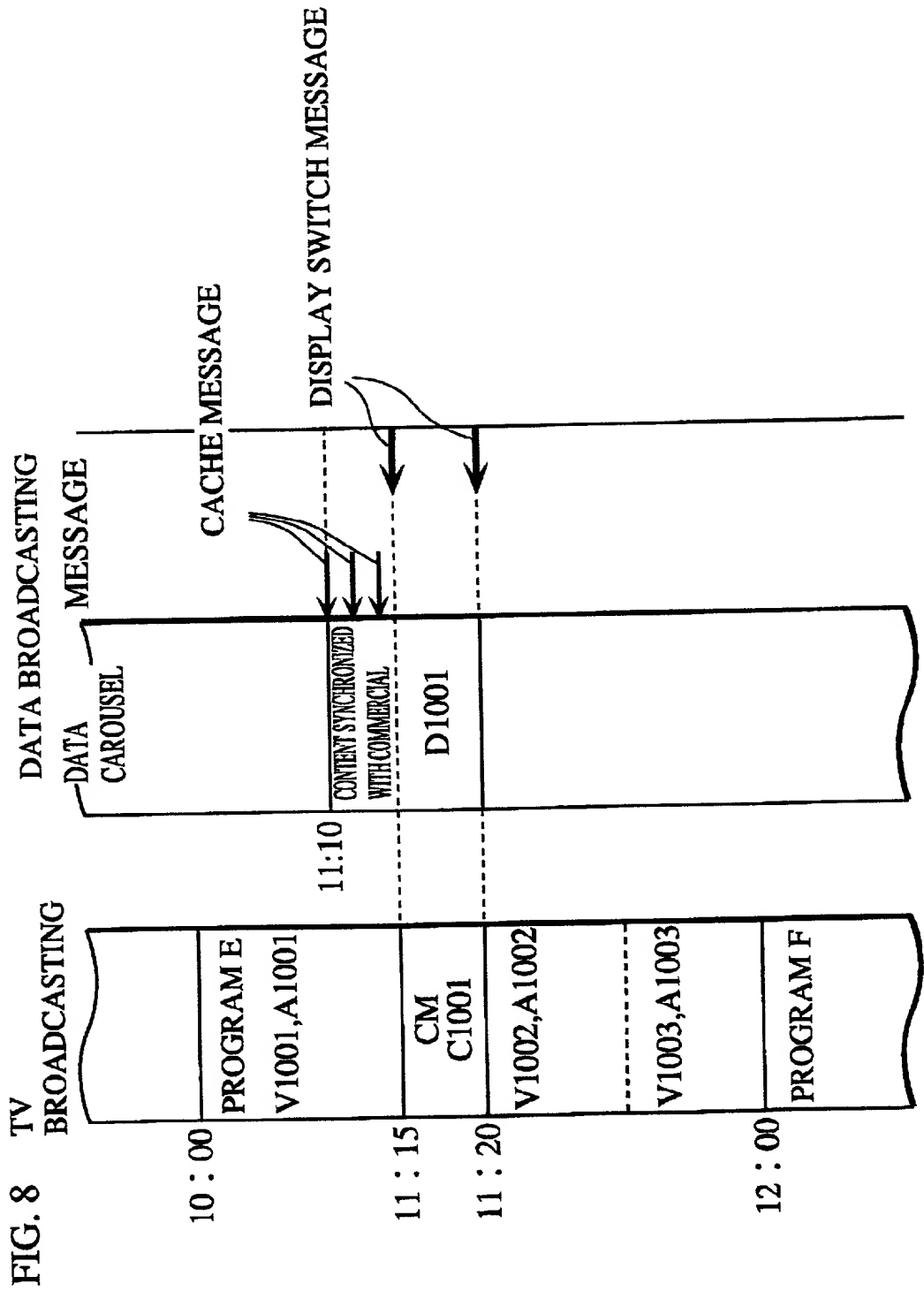


FIG. 9A

FIG. 9A

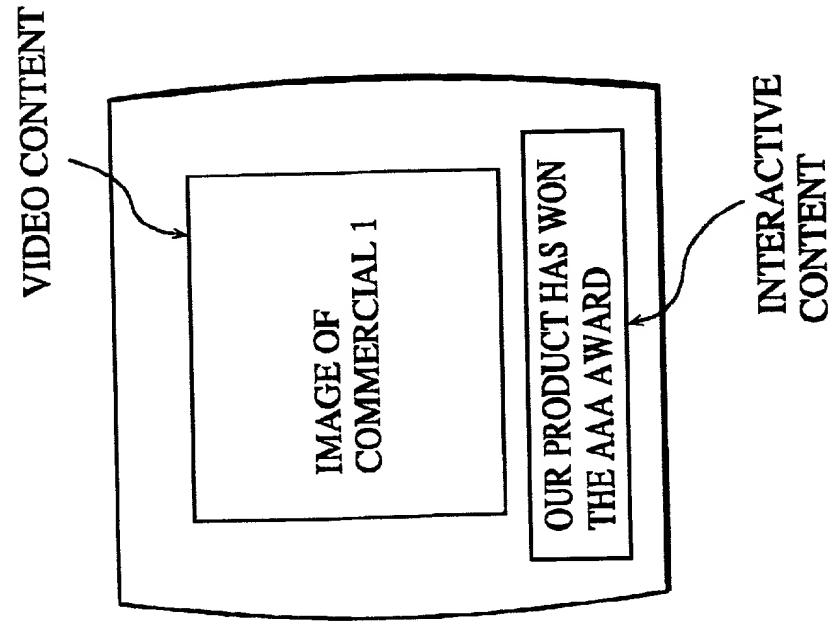


FIG. 9B

